

# RUBRIC: ROBOT USE

Live Performance at State Championship

**Skill sets: Students program a robot for a task**

All students practice ethical, safe and legal behavior using technology.

Your challenge is to create a robot that is either a transformation of another item OR transforms the way you do a task. For example, you could create a robotic dog that is able to do some of the things a real dog does (i.e., catch a Frisbee, pull a sled, find a lost child, etc.) or you could create a robot that performs a task like mowing the yard or even picking crops. Remember that part of your score involves the story you tell about your robot and how it could transform our world.

SCHOOL NAME \_\_\_\_\_

GRADE LEVEL: Elementary      Middle School      High School

NAME : \_\_\_\_\_

CRITERIA	CRITERIA	CRITERIA
The task was performed at a satisfactory level and the solution showed some creativity	The task was performed at a high level and the solution showed creativity	The task was performed at an exceptional level and the solution showed creativity
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
The robot used no sensors, but the student explained how the robot could be adapted to use a sensor	The robot used at least one sensor to perform the task	The robot used more than one sensor to complete the task
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
The robot showed minimal engineering, creativity, and building skills. The robot was sturdy, and the design was somewhat appropriate to the task.	The robot showed very good engineering, creativity, and building skills. The robot was sturdy, and the design was appropriate to the task.	The robot showed exceptional engineering, creativity, and building skills. The robot was very sturdy, and the design was exceptionally appropriate to the task.
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
Student did a satisfactory job describing the task the way it is currently done in the community or in the competition. The detail was at a satisfactory level.	Student did a good job describing the task the way it is currently done in the community or in the competition. The detail was at a medium level.	Student did an excellent job describing the task the way it is currently done in the community or in the competition. The detail was at a high level.
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
Student did a satisfactory job describing the robot and how the robot could do the task better than the 'traditional' way. Or, the student described the reason they chose to showcase this particular robot in the competition.	Student did a good job describing the robot and how the robot could do the task better than the 'traditional' way. Or, the student described the reason they chose to showcase this particular robot in the competition.	Student did an excellent job describing the robot and how the robot could do the task better than the 'traditional' way. Or, the student described the reason they chose to showcase this particular robot in the competition.
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
The props somewhat added to the presentation. Or, the students minimally used the competition props to enhance their presentation.	The props added to the presentation. Or, the students somewhat used the competition props to enhance their presentation.	The props greatly added to the presentation. Or, the students properly used the competition props to enhance their presentation.
<b>SCORE POINTS: 0 1 2</b>	<b>3</b>	<b>4</b>
	<b>TOTAL SCORE OF 24:</b>	